All electives to be selected in consultation with the student’s advisor. In regards to the electives other than the MATH elective: students must have 6 hours (2 classes) in BAEN electives, 3 hours (1 class) of engineering electives, and 3 hours (1 class) of technical electives. Students may opt to take 3-4 classes within the BAEN electives if they choose.

<table>
<thead>
<tr>
<th>Environmental and Natural Resources Engineering Emphasis</th>
<th>Food and Bioprocess Engineering Emphasis</th>
<th>Machine Systems Engineering Emphasis</th>
<th>Renewable Energy</th>
</tr>
</thead>
<tbody>
<tr>
<td>CVEN 302 MEEN 357 MATH 417</td>
<td>CHEN 320 MATH 417 CVEN 302 MEEN 357 MATH 304 STAT 211</td>
<td>MEEN 357</td>
<td>CVEN 302 MEEN 357 MATH 417 STAT 211</td>
</tr>
</tbody>
</table>

**Mathematics Electives**
Select 3 hours of mathematics electives:
- CVEN 302 MEEN 357 MATH 417
- CHEN 320 MATH 417 CVEN 302 MEEN 357 MATH 304 STAT 211
- MEEN 357
- CVEN 302 MEEN 357 MATH 417 STAT 211

**Technical Electives**
Select 0-3 hours of science or engineering electives:
- BESC 401 ESSM 440 RENR 405
- BESC 402 ESSM 351 RENR 470
- BESC 403 GEOG 390 SCSC 301
- BIOL 357 GEOG 475 SCSC405
- ESSM 320 GEOL 320 SCSC 445
- ESSM 420 GEOL 410 SCSC 455
- ESSM 430 GEOL 451 WFSC 414
- WFSC 418

**Biological and Agricultural Engineering Electives**
Select 6-12 hours from 400 level Biological and Agricultural Engineering courses:
- BAEN 460 BAEN 468 BAEN 477
- BAEN 417 BAEN 465 BAEN 412
- BAEN 422 BAEN 471 BAEN 414
- BAEN 427 BAEN 477 BAEN 477

**Engineering Electives**
Select 0-3 hours from 300 or 400 level engineering courses:
- CVEN 301 CVEN 349 CVEN 451
- CHEN 455 SENG 312 MEEN 360 MEEN 442
- CVEN 303 CVEN 402 CVEN 455
- CVEN 333 CVEN 406 CVEN 463
- SENG 310 MEEN 363 MEEN 444
- CVEN 339 CVEN 413 MEEN 364 MEEN 465
- MEEN 441 MEEN 444

**Technical electives and Engineering electives outside of the BAEN department might require prerequisites that we will not use towards your degree program in BAEN. You must check the prerequisites and ensure they are met if you plan to take specific courses.**